

## Abstract

A method and system for improving a level of service between wireless devices. Handheld devices implementing the Bluetooth specification typically have relatively limited transmission ranges. As a result, and since they are typically portable, such devices easily experience abrupt communication interruptions, either between themselves and other handheld devices, or between themselves and fixed devices. The effective range of the devices can be extended by providing additional error-correcting coding. Although this modification also results in an extended transmission time, users are provided with an increased transmission range, and are given warning that service may soon be interrupted. Users may then, if they wish, take such steps as finishing their communication or moving into their devices' normal transmission range. Additionally, the handheld devices may use the extra transmission time and range to search for a forwarding path to a recipient device, thus minimizing or preventing any service interruption.

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